

Amendments to the Claims:

This listing of claims replaces all prior listings, and versions, of claims in the application.

Listing of Claims:

1. (Currently amended) Apparatus for a radio communication system having a network part that maintains at least a network-copy of a first database containing data and a mobile node that maintains at least a mobile-copy of the first database containing data, the data of the network-copy and the mobile-copy of the first database, respectively, correspond when the network-copy and the mobile-copy of the first database are in match with one another, said apparatus for selectably altering the data of at least one of the network-copy and the mobile-copy of the at least the first database to place the network-copy and the mobile-copy in match with each other, said apparatus comprising:

a hash generator embodied at the mobile node and adapted to receive representations of a substantially complete copy of at least the mobile-copy of the at least the first database, said hash generator forming a hash value from said substantially complete copy of the representations provided thereto, a hash value formation by the hash generator being more computationally-intensive to form than a checksum, its formation being triggered when the network-copy first data base and the mobile-copy of the first data base are suspected of being out of synchronization with each other, the hash value being formed for communication to the network part to determine whether the network-copy and the mobile-copy are in match with one another; and

a content retriever embodied at the mobile node, said content retriever for retrieving data from the mobile-copy of the at least the first database upon detection of determination that the network-copy and the mobile-copy are out of match, the data retrieved by said content retriever for communication to the network part, to be used to match the network-copy and the mobile-copy theretogether.

2. (Previously presented) The apparatus of claim 1 wherein said hash generator generates the hash values of a copy of the at least the mobile-copy of the at least the first database responsive to an external triggering event, occurrence of which is detectable at the mobile node.

3. (Cancelled)

4. (Previously presented) The apparatus of claim 2 wherein said hash generator generates first-type hashes upon detection of an external triggering event, indications of occurrence of which is detectable at the mobile node and wherein said hash generator generates second-type hashes responsive to determination of mismatch of the first-type hashes, generated by said hash generator, with network-calculated values.

5. (Previously presented) The apparatus of claim 4 wherein the data maintained at the network-copy and the mobile-copy of the at least the first database is comprised of data records, each data record formed of fields including at least a first key field and at least a first record field, and wherein the second-type hashes selectably generated by said hash generator are formed of values of the at least the first key field.

6. (Original) The apparatus of claim 5 wherein the determination that the network-copy and the mobile-copy are out of match is made responsive to values of the second-type hashes formed of the values of the at least the key field.

7. (Original) The apparatus of claim 5 wherein the data retrieved by said content retriever comprises both the at least the first key field and the at least the first record field.

8. (Original) In the radio communication system of claim 1, a further improvement of apparatus for the network part also for selectably altering the data of at least one of the network-copy and the mobile-copy of the at least the first database, said apparatus comprising:

a determiner adapted to receive values of the hash generated by said hash generator, said determiner for determining whether the values of the hash correspond with locally-generated values; and

a requestor coupled to said determiner to receive indications of determinations made thereat, said requestor selectably for requesting additional information associated with the mobile-copy of the at least the first database.

9. (Original) The apparatus of claim 8 wherein the hash generated by said hash generator is selectably of a first hash-type and at least a second hash-type, and wherein the locally-generated values with which said determiner compares the hash are correspondingly selectably of a first hash-type and a second hash-type.

10. (Original) The apparatus of claim 8 wherein the additional information requested by said requestor comprises a request for the mobile node to deliver hash information of the second hash-type to the comparator.

11. (Original) The apparatus of claim 8 wherein the data maintained at the network-copy and the mobile-copy of the at least the first database is comprised of data records and wherein the additional information requested by said requestor comprises a request for the mobile node to deliver values of at least portions of the data records.

12. (Original) The apparatus of claim 11 further comprising a comparator adapted to receive the values of the at least the portions of the data records responsive to the request therefor to the mobile node, said comparator for comparing the values with corresponding values of the network-copy of the at least the first database.

13. (Original) The apparatus of claim 12 further comprising a database value updater coupled to said comparator, said database value updater selectably operable responsive to comparisons made by said comparator to alter at least one data record of a selected one of the mobile-copy and the network-copy of the at least the first database.

14. (Original) The apparatus of claim 13 wherein said database value updater operates pursuant to a selected conflict resolution protocol.

15. (Currently amended) A method of communicating in a radio communication system having a network part that maintains at least a network-copy of a first database containing data and a mobile node that maintains at least a mobile-copy of the first database containing data, the data of the network-copy and the mobile-copy of the first database, respectively, correspond when the network-copy and the mobile-copy of the first database are in match with one another, said method for selectably altering the data of at least one of the network-copy and the mobile-copy of the at least the first database to place the network-copy and the mobile-copy in match with each other, said method comprising:

generating a first hash value in the mobile node from a complete copy of the mobile-copy of the first data base when the network-copy and the mobile copy are suspected of being out of synchronization with each other, said first hash value being more computationally-intensive to form than a checksum;

selectably sending the first hash value from the mobile node to the network part, the first hash value being representative of the mobile-copy of the first database;

comparing, at the network part, the first hash value sent during said operation of selectably sending with corresponding network-copy of the first hash value; and

selectably requesting additional information regarding the mobile-copy first database responsive to comparisons made during said operation of comparing the first hash value.

16. (Previously presented) The method of claim 15 wherein the additional information requested during said operation of selectably requesting comprises a second hash value from the mobile node to the network part, the second hash value also representative of the mobile copy of the at least the first database.

17. (Previously presented) The method of claim 16 further comprising the operations of: sending the second hash value from the mobile node to the network part; comparing, at the network part, the second hash value sent during said operation of sending the second hash value with corresponding network-copy second hash value; and selectably requesting at least portions of the mobile-copy of the at least the first database responsive to comparisons made during said operation of comparing the second hash value.

18. (Original) The method of claim 17 further comprising the operations of delivering the at least the portions of the mobile-copy to the network part, comparing the portions of the mobile copy delivered during said operation of delivering with corresponding portions of the network-copy of the at least the first database, and selectably causing overwriting of the portions of a selected one of the network-copy and the mobile-copy responsive to comparisons made during said operation of comparing the portions of the mobile-copy.

19. (Original) The method of claim 18 wherein the selected one of the network-copy and the mobile-copy of which the portions thereof are selectably caused to be overwritten is selected according to a conflict resolution scheme.

20. (Original) The method of claim 19 further comprising the operation of creating a change-history by indicating overwriting of the portions selectably caused during said operation of selectably causing.